SEQUENCE LISTING

<110> Fisher, Paul B.

<120> Reciprocal Subtraction Differential Display

<130> 34587-C-PCT-USA-I

<140> US 10/725,969
<141> 2003-12-02

<150> US 09/644,460
<151> 2000-08-23

<150> PCT/US99/04323
<151> 1999-02-26

<150> US 09/197,889
<151> 1998-11-23

<150> US 09/185,115
<151> 1998-11-03

<150> US 09/032,684
<151> 1998-02-27

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<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 371
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 5, 93, 153, 199, 217, 218, 221, 247, 259, 260, 274, 333,
      335, 358, 360
<223> n = A,T,C or G

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attagcccag aaactgacca tcagactgtc aancaggtac cggtatggcc agttaattga 120
aataaacagc cacagcctat tttctaagtg gtnttcagaa agtggcaagt tggtaactaa 180
gatgttccag aagattcang acttgattga tgataannaa nctttggtgt ttgtcctgat 240
tgatgangta agcactcann ggtactcatt cttngtctgc attgcctctt gctattactg 300
cctgatccct ctcatttggt tcactgtgtc gcnanctctt ttctatggat cttttccnan 360
ccacccgttt c 371

<210> 2
<211> 245
<212> DNA
<213> rattus norvegicus

<400> 2
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tgacaatact cggccaacaa ttcttgcata gagtgctgat aaataactat gttacaaaaa 120
ggggtggtcc ctggagaaca ttacaggctt ccctaggtaa gtgtgcaggt caggagacgg 180
catattcaat cagatggctg atagttctcc gtggttatgc accggctcca gcttgcctac 240
gtcac 245

<210> 3
<211> 178

<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 140, 163
<223> n = A,T,C or G

<400> 3
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actatctgca tcatcaagcg agggcttgtg tcggcggcta tgtgcagaga cgagcagggc 120
gaggcactta aaagctgctn gatgaaaatc cacccaggag aantctgggc ctacgtca 178

<210> 4
<211> 191
<212> DNA
<213> rattus norvegicus

<400> 4
tgacgtaggc ccagacttct cctgggtgga ttttcatcca gcagctttta agtgcctcgc 60
cctgctcgtc tctgcacata gccgccgaca caagccctcg cttgatgatg cagatagtcc 120
atctgccttt ctctcccctt gccctgctat gactgttgca ttaaattcat catgctgcca 180
aaaaaaaaaa a 191

<210> 5
<211> 124
<212> DNA
<213> rattus norvegicus

<400> 5
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agcactcctc tagcagcagg tccgaagtgc tccagcatcg tcagctggct ccaacaccta 120
cgtc 124

<210> 6
<211> 61
<212> DNA
<213> rattus norvegicus

<400> 6
tttttttttt tttggaaaca gaataaagtg ctttattctc tggctggctc tcctacgtca 60
c 61

<210> 7
<211> 216
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 145
<223> n = A,T,C or G

<400> 7
tcggcgatag cattggagca agtcttatca gcaagcaatg ttttcagtta tgtttcaaag 60
ttaagaatgg gtttaaactt gctgaacgta aagattgacc ctcaagtcac tgtagcttta 120
gtacttgctt attgtattag tttanatgct agcaccgcat gtgctctgca tattctggtt 180
ttattaaaat aaaaagttga actgcaaaaa aaaaaa 216

<210> 8
<211> 334
<212> DNA
<213> rattus norvegicus

<220>

<221> unsure
<222> 42, 107, 126
<223> n = A,T,C or G

<400> 8
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ctttattatt attattatta ttattattat tataaataaa acatgtnctt tcaattaggt 120
tacaanagta tttatctcca taacgcttct tcatacatcc ttagtttttgg attaaagtac 180
catccacccc aactcaaact gtaacccca gtaatcccct ctaacgtgga aatttctggt 240
ttaacaactc agttaactgc cccacaaaca gtgggaggcc gctcttgcat ggctatgcca 300
cgtaaccctt cactgcttca cttcttcgct ggct 334

<210> 9
<211> 136
<212> DNA
<213> rattus norvegicus

<400> 9
gaccgcttgt accatccaac ttgctttgtc ttctgcagag aggaggctaa agcccttgag 60
ctggctggca ctgtactcag gccggaagcc cagctcgtcc cggttcttga caaagcaagt 120
tggatggtac aagcgg 136

<210> 10
<211> 316
<212> DNA
<213> rattus norvegicus

<400> 10
tgccgagctg ggtattgtga cggttgataa tggcggcatc atgttgccag gtaccgggta 60
agcagacctc agagcacagc ttattgtcca gtgctttcac gctcgcgacg tcaaagtcat 120
tgttattgtc acactccatg cctagaaatg cgcatgtcct ctggccatct tcttgcacag 180
gggatctgtc ctcttcctcc atgatatcat ttccctctgc atcctgctct ccagctggaa 240
ggccagcaaa attgctgtct ggggactctg ctggggtctc ctcctcttct gaaggggccc 300
tgctagcagc tcggca 316

<210> 11
<211> 337
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 254, 255, 256, 305, 318
<223> n = A,T,C or G

<400> 11
aggggtcttg atggacttgg gtcggacatc ttagtgacct gtgaattctt ctgtggaggc 60
tgagtctcac gtagccgagt ttaatatctg tgctatttac taaagtatct gccaccaaat 120
tgtaccaact catagttta tatgaatgtt gatgagtctg tatcataaat agaattgttg 180
atacatcctt aatttgtgca atattgtatg aagaagattg ttatcaatta aaaccacgcc 240
tctttatgat cctnnnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaccncctca aatccatngg ttctaaccca aaaccct 337

<210> 12
<211> 307
<212> DNA
<213> rattus norvegicus

<400> 12
tttttttttt catacaccat caaaccaatt ttatttctat agcaacgttt ctcacgtctg 60
aacctgagaa taagtcacca gctcttgaca gtaaacatgg gccctatcaa attatattag 120
actcctcagt gtcccgccat gtggccttgc accaaatcaa ttagtttgag ggccaaaatc 180
ctgttgggtt tcaaataaag tgtcaggtca taaggagggg gagggactca attcatggga 240
acatttttac ctgttcaaat agataaactg aattgcccta tctgtggtca cctggatcca 300
agaccct 307

<210> 13
<211> 296
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 59, 101, 110, 122, 131, 133, 148, 189, 191, 198
<223> n = A,T,C or G

<400> 13
ccctgacgat aaatggtaag gaactttttt tttttttttt tttttttttt tttttttttnc 60
gaaataaaca aacacagctt attatttggg ggaacattaa nttctataan tgaacacaaa 120
anaaaattaa nanttaatgg gggggtanaa gggactttga atctatctgg tatcatgaca 180
ttgaagcana nacctgantg accagaaaga gagagagaga gagagagaga gagagagaga 240
gagaggtttc atatgagcta gtgttacagg ctttattagt ctattagtca gggacc 296

<210> 14
<211> 319
<212> DNA
<213> rattus norvegicus

<400> 14
aatcgggctg gatgggtgta tccggcactg tttcgtagcg gcagcaactg ggtgcttcta 60
tctgaaagcg ggcttcacaa aaactactgc gccacccgac tcgctgcggc atcgcccggt 120
ggcgagtacc gtatcgcctt tcctggtgca gaagaagtgt ttacaggagg cggtcattta 180
ccgcaatctg attctgtttt ttattctccc tggcgggtga tcgcgatcgg cagtttgaaa 240
acgatcgttg aatccacgct cgggaatgat gtggcttcgc cgccaacgct tactgacatt 300
tcatttgtac agcccgatt 319

<210> 15
<211> 287
<212> DNA
<213> rattus norvegicus

<400> 15
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ggggtagacc ctctaaagct tgagatttat cttacagatg aagacttcga gtttgcactc 120
gacatgacca gagatgaatt caacgcactg cccacctgga agcaaatgaa cctgaagaaa 180
gcgaaaggcc tgttctgagg gtgagatgac agccacagag aggtcactgc cactagacca 240
gaaagtggat ggagatatat atttggactg gtgttttttt ctgtcag 287

<210> 16
<211> 344
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 208, 269, 338
<223> n = A,T,C or G

<400> 16
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actcatgacc aggctcggaa gcggctcacc aaacgttcgg aggaagtggt ccgcctgctg 120
gtgactcggc agtctctgca gaaggccgta cagcagtcca tgctgtcata gctgtagtca 180
gcctagactt ctgcccactg accttttngg gcactgagaa cacatccacg ctctgtctgt 240
atctagttct ggcttctgct gtgtgctang ccccagctct gaggagtaac agctgatccc 300
aaaggtccaa gccaaccttc ttacccctca gcccccancc cgat 344

<210> 17
<211> 300
<212> DNA
<213> rattus norvegicus

<400> 17
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accccagcag gaagaagact gggtgcagtc tagagttcct agtcaagagt aggaaggttt 120
ctgttatacc catcatagaa cgagagaggg ggctcaatag atcatcccct ttgtctctcc 180
acggggcttc ttgagcttct caaagttctt caggatgatg tcatataaca cagcataagc 240
gttacggatc tccatgacca tcagccggat ctcctggtat tccgcctcgt ccagctcggc 300


<210> 18
<211> 461
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 3, 161, 181, 190, 459
<223> n = A,T,C or G

<400> 18
aanatctgct taaaagttct ttaatttgta ccatttcttc aaataaagaa ttttggtaca 60
aattaaagaa cttttaagca gatgttttgg tgcaactaat agaaaagata aaggcagcct 120
gacatgcatg cactgcctca gtgaccagta aagtcacatg nccttgggac gtcagcttag 180
ntttatcacn gtgtcccagg ggtgcttgtc aaagagatat tctgccatgc cagattcagg 240
ggctcccatc ttgcgtaagt tggtcacgtg gtcacccagt tctttaatgg atttcacctg 300
ctcattcagg taatgcgtct caatgaagtc acataagtgg ggatcattct tgtcagtagc 360
cagtttgtga agttccagta gtgactgatt cacactcttt tccaagtgca gtgcacactc 420
cattgcattc agcccgctct cccagtcatc acggtcacnt a            461

<210> 19
<211> 280
<212> DNA
<213> rattus norvegicus

<400> 19
tgacgtaggg ccgagagcaa caagcacaga actccttctc cagtttcacc ctgatgaagt 60
tgaggcactc ttctgcactg ggaggggcca gcctgggggc caggcacatt ggacaccacc 120
ttcccatgga ctacagcgtc aatgccattg ccttctattc ctataccttc taggggctgc 180
ccctcttccc attcagccaa cactgagtgt tgggagattt ctctttttta aaaacacatg 240
agaaaataaa tgcactttac tccctcccca aaaaaaaaaa            280

<210> 20
<211> 177
<212> DNA
<213> rattus norvegicus

<400> 20
gtaggcaata aaatgttttc agaggtgcga aaaagctttt gttttcttaa accattctta 60
gtctctgcca cacttgacac tccgtcaaag tgagaagcga actaaagacc aactgcggtg 120
gaaaatatta tgtttatgta ataaaaaaaa atcatgtaac tgcaaaaaaa aaaaaaa 177

<210> 21
<211> 633
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 449, 476, 478, 520, 526, 535, 570, 573, 581, 615, 619, 628
<223> n = A,T,C or G

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atactctttg gataagaacc ccggccttgt taccaggtac cggagtgagc tgaaaaattt 120
accgtcgaaa tgggtgatgt cctggaaaaa atggttcacc agctgccagg cagattcttt 180

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gggttccaca ttttcctgcc cacagatgtg gcagaagcgg tcaagtaatg cagcattaca 240
attgaggcag atcttttctt ttctttcctt ggagtggctc aaccagcgat tttggttaaa 300
aataatcaaa aaagcgacgg caaaactttt gttatattcc cgcctgtggc atttgaactg 360
tgcccggcaa ccgaataact tttaattttg aaaataaaat gcatactaga tttttagcgg 420
ttgcctcctg gccattgctt caggcgccng cacagcgtca gcccagtttt accacnanga 480
atatcctaag cgttgaaaca gggcacagcc gaaaaaaacn ctggcnacaa aaaanatccg 540
gacatccttt ttccaatttt gaaaccgaan gcncgcaaac naaggttctt cgggaaaaaa 600
aatcgccaaa atacncgana tcaaactntc caa                         633

<210> 22
<211> 213
<212> DNA
<213> rattus norvegicus

<400> 22
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tagaagtaat aagaacttca caagtagaac aacagagtta attgacctct atccttaaga 120
gttaccagag aattattaaa aaactaaaga acaatcaaag cctggtcctg tgccaccacc 180
caaaaacatg tatagcctat gtgcagctcg gca                         213

<210> 23
<211> 679
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 5, 11, 12, 13, 16, 18, 21, 23, 30, 36, 40, 41, 48, 50, 53,
      55, 56, 59, 72, 91, 92, 103, 106, 120, 123, 129, 133, 136
<223> n = A,T,C or G

<220>
<221> unsure
<222> 138, 143, 153, 155, 157, 165, 168, 171, 175, 178, 180, 181,
      182, 194, 200, 205, 207, 210, 213, 214, 225, 232, 244, 274,
<223> n = A,T,C or G

<220>
<221> unsure
<222> 281, 285, 294, 299, 313, 349, 353, 358, 360, 374, 386, 388,
      411, 414, 415, 452, 482, 487, 497, 499, 513, 540, 542, 556,
<223> n = A,T,C or G

<220>
<221> unsure
<222> 558, 559, 563, 597, 608, 621, 647, 661, 662, 671, 675
<223> n = A,T,C or G

<400> 23
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gtaaactaca cnggagtact taagtggaca nnccacatgc ganggncaag gggatcaccn 120
tcnctcctnc agnctntncg tgnctctcct gtncntncac tgccncanaa nggangcncn 180
nnctcctatc tgtntacagn aaacntngcn ctnnctctaa gctcncccac tntgtggaaa 240
ggcnatgtgt gcgtgcctct cccctatcac ggcngtttgc naaangggga tgtnctgcnc 300
ggcgatgaag ttnggtcact ccatgtttcc cagtccnacc tgttagacna agnattgnan 360
tgtgatacga ctcnctgtaa ggggantngc ggacccagta tgtttggccc nacnnccact 420
tctttaaatg gtggctaacg gcgcttccta gnataaacac tattggtccc cccctctgca 480
gnacccntta cttccgnana aaaattgttg tcntgatccg cgacaaccac accgtctgtn 540
gnttttagtt gcaacncnna tcnctccaaa aaagtttcag aaatcttcat tttcccnggt 600
tgagcccntg acaaacccct naggatttgt cgaatgtaaa gtctccngat cttcaataaa 660
nntccaaaag nctancgat                                         679

<210> 24
<211> 1150
<212> DNA
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<213> rattus norvegicus

<400> 24

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caaatcactg gctgattggc acaggtacct gtgtggagag gatcaatgag atggtggaca 180
gggctaaacg gaaggctgga gtggatcctc tggtaccccct tcgaagcctg ggcttgtccc 240
tgagtggtgg ggagcaggag gatgcagtga ggctcctgat ggaggagttg agggaccgat 300
ttccctacct gagtgaaagt tacttcatca ccactgatgc agcaggttcc atcgccacag 360
ctacaccgga tggtgggatt gtgctcatct ctggaacagg ctccaactgt aggcttatca 420
accctgatgg ctctgagagt ggctgtggtg gctggggcca catgatggga gacgagggat 480
cagcctactg gattgcacac caagctgtga aaattgtgtt tgactccatt gacaacctgg 540
aagcagctcc tcatgatatt ggccatgtca agcaggccat gttcaactac ttccaggtgc 600
cagatcggct aggaatcctc actcacttgt atagggactt tgataagtcc aagtttgctg 660
gattttgtca gaaaattgca gaaggtgcac agcagggaga ccctcttttcc aggttcatct 720
tcagaaaggc tggggagatg ctgggcagac acgttgtggc agtattgcca gagattgacc 780
cagttttgtt ccaagggggag cttggcctcc ccattctgtg tgtgggctca gtgtggaaga 840
gctgggagct actgaaggaa ggctttctcc tggcactgac gcagggccga gagcaacagg 900
cacagaactc cttctccagt ttcaccctga tgaagttgag gcactcttct gcactgggag 960
gggccagcct gggggccagg cacattggac accaccttcc catggactac agcgtcaatg 1020
ccattgcctt ctattcctat accttctagg ggctgcccct cttcccattc agccaacact 1080
gagtgttggg agatttctct tttttaaaaa cacatgagaa aataaatgca ctttactccc 1140
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<210> 25
<211> 348
<212> PRT
<213> rattus norvegicus

<400> 25

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Gly Thr Arg Ser Lys Val Leu Leu Leu Ser Glu Asp Gly Gln Ile Leu
            20                  25                  30
Ala Glu Ala Asp Gly Leu Ser Thr Asn His Trp Leu Ile Gly Thr Gly
        35                  40                  45
Thr Cys Val Glu Arg Ile Asn Glu Met Val Asp Arg Ala Lys Arg Lys
    50                  55                  60
Ala Gly Val Asp Pro Leu Val Pro Leu Arg Ser Leu Gly Leu Ser Leu
65                  70                  75                  80
Ser Gly Gly Glu Gln Glu Asp Ala Val Arg Leu Leu Met Glu Glu Leu
                85                  90                  95
Arg Asp Arg Phe Pro Tyr Leu Ser Glu Ser Tyr Phe Ile Thr Thr Asp
            100                 105                 110
Ala Ala Gly Ser Ile Ala Thr Ala Thr Pro Asp Gly Gly Ile Val Leu
        115                 120                 125
Ile Ser Gly Thr Gly Ser Asn Cys Arg Leu Ile Asn Pro Asp Gly Ser
    130                 135                 140
Glu Ser Gly Cys Gly Gly Trp Gly His Met Met Gly Asp Glu Gly Ser
145                 150                 155                 160
Ala Tyr Trp Ile Ala His Gln Ala Val Lys Ile Val Phe Asp Ser Ile
                165                 170                 175
Asp Asn Leu Glu Ala Ala Pro His Asp Ile Gly His Val Lys Gln Ala
            180                 185                 190
Met Phe Asn Tyr Phe Gln Val Pro Asp Arg Leu Gly Ile Leu Thr His
            195                 200                 205
Leu Tyr Arg Asp Phe Asp Lys Ser Lys Phe Ala Gly Phe Cys Gln Lys
    210                 215                 220
Ile Ala Glu Gly Ala Gln Gln Gly Asp Pro Leu Ser Arg Phe Ile Phe
225                 230                 235                 240
Arg Lys Ala Gly Glu Met Leu Gly Arg His Val Val Ala Val Leu Pro
                245                 250                 255
Glu Ile Asp Pro Val Leu Phe Gln Gly Glu Leu Gly Leu Pro Ile Leu
            260                 265                 270
Cys Val Gly Ser Val Trp Lys Ser Trp Glu Leu Leu Lys Glu Gly Phe
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              275                    280                   285
Leu Leu Ala Leu Thr Gln Gly Arg Glu Gln Gln Ala Gln Asn Ser Phe
        290                    295                   300
Ser Ser Phe Thr Leu Met Lys Leu Arg His Ser Ser Ala Leu Gly Gly
305                    310                   315                320
Ala Ser Leu Gly Ala Arg His Ile Gly His His Leu Pro Met Asp Tyr
                    325                   330                   335
Ser Val Asn Ala Ile Ala Phe Tyr Ser Tyr Thr Phe
            340                   345
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<210> 26
<211> 800
<212> DNA
<213> rattus norvegicus

<400> 26
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cttccttctt ctgcttgttc ctccctaggg cgcggaagct gagtgcaggg ttcagaccca 120
cgcggcgagc agctcttcag tgaagaagga agcaatcgga gggtcagcaa tgaacgtgga 180
gcatgaggtt aacctcctgg tggaggaaat tcatcgtctg ggttccaaaa atgccgatgg 240
gaaactgagt gtgaagtttg gggtcctctt ccaagacgac agatgtgcca atctctttga 300
aaccgttggt gggaactctg aaagcccgca aaacgaagga agattgttac gtacgcagaa 360
gagctgcttt tgcaaggtgt tcatgatgat gttgacattg tattgctgca agattaatgt 420
ggtttgcaga tctgggggta tctggtaaac tggaataatt aagttaaagg acaaacatga 480
agttccttat gtattttat agacctttgt aaacaaaagg ggacttgttg agaagtcctg 540
tttttatacc ttggagcaaa acattacaat gtaaaaataa acaaaacctg ttattttttt 600
tttcttaaga aggtaatcgg gagacgtagg caataaaatg ttttcagagg tgcgaaaaag 660
cttttgtttt cttaaaccat tcttagtctc tgccacactt gacactccgt caaagtgaga 720
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gtaaaaaaaa aaaaaaaaaa 800
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<210> 27
<211> 92
<212> PRT
<213> rattus norvegicus

<400> 27
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Leu Gly Ser Lys Asn Ala Asp Gly Lys Leu Ser Val Lys Phe Gly Val
            20                  25                  30
Leu Phe Gln Asp Asp Arg Cys Ala Asn Leu Phe Glu Thr Val Gly Gly
            35                  40                  45
Asn Ser Glu Ser Pro Gln Asn Glu Gly Arg Leu Leu Arg Thr Gln Lys
        50                  55                  60
Ser Cys Phe Cys Lys Val Phe Met Met Met Leu Thr Leu Tyr Cys Cys
65                  70                  75                  80
Lys Ile Asn Val Val Cys Arg Ser Gly Gly Ile Trp
                85                  90
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<210> 28
<211> 1538
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 652, 1523
<223> n = A,T,C or G

<400> 28
gtgtggtgtg tctctcagac gtccgtgaca ctttgatcct gccctgccgg cacctgtgcc 60
tctgcaacac ctgtgcagac accctgcgct accaggccaa caactgcccc atctgccggc 120
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tgcccttccg ggcactgctt cagatccgag ccatgaggaa aaaattgggc cctctgtctc 180
caagcagctt taaccccatc atctcttccc agacttcgga ctctgaggaa cattcatcct 240
cagagaacat ccctgcgggc tatgaagtgg tgtctctcct ggaggccctc aatgggcccc 300
tcacctcatc cccagcggtg cctccccttc acgttcttgg agatggccac ctctcaggaa 360
tgctgccgtc ctatggcagt gatggccacc tgccccctgt taggacactg tcccccccttg 420
accacctgtc tgattgcaac agccaagggc tcaaactcaa caagtctctc tccaagtcca 480
tttcccagaa ttcttctgtg cttcacgcag aggaagatga gcgctcttgc agtgagtcag 540
acactcagct ctctcagagg ctgtcagccc agcatcctga gagggacct gatgtgactc 600
cagagagtga gaacctcacg ctgtcctcct caggggctgt tgaccagtca tnttgcacag 660
ggactccgct ctcttccacc atctcctccc cagaagaccc agccagcagc agcctggccc 720
agtcagtcat gtccatggcc tcctcccaga tcagcactga caccgtgtcc tccatgtctg 780
gctcctacat tgcacctggc acagaagaag aaggagaggc cccaccttcc ccccgagctg 840
ctagcagggc cccttcagaa gaggaggaga ccccagcaga gtccccagac agcaattttg 900
ctggccttcc agctggagag caggatgcag agggaaatga tatcatggag gaagaggaca 960
gatcccctgt gcaagaagat ggccagagga catgcgcatt tctaggcatg gagtgtgaca 1020
ataacaatga ctttgacgtc gcgagcgtga aagcactgga caataagctg tgctctgagg 1080
tctgcttacc cggtacctgg caacatgatg ccgccattat caaccgtcac aatacccagc 1140
gccggcgact atcacccagc agcctggagg accctgagga ggacaggcct tgcgtatggg 1200
atcctttggc tgtctgaggg cactggcacc tgtacctggg cttcccctcc tgtccgcctt 1260
ccatctgtcc tcactggacc acaggccttc tgggcatctt caacaagaca cgtggacttt 1320
ctactctcat gaagggagga cagtgcaacc ctccaccaac ttcatctcct gtaaccatga 1380
ttcttaccct ctcagaaagt accagaagcc ttcctcctgt gggctgatgt gtgccagcca 1440
aacccagtgg gtcagctgag ctgagggtca gggctggttg tttctgtagc cttttctctt 1500
ccaaatggag accaacgaga aanaaaaaaa aaaaaaaa                         1538
```

<210> 29
<211> 404
<212> PRT
<213> rattus norvegicus

<220>
<221> unsure
<222> (1)...(404)
<223> Xaa = Any Amino Acid

<400> 29

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Val Val Cys Leu Ser Asp Val Arg Asp Thr Leu Ile Leu Pro Cys Arg
 1               5                  10                  15
His Leu Cys Leu Cys Asn Thr Cys Ala Asp Thr Leu Arg Tyr Gln Ala
            20                  25                  30
Asn Asn Cys Pro Ile Cys Arg Leu Pro Phe Arg Ala Leu Leu Gln Ile
            35                  40                  45
Arg Ala Met Arg Lys Lys Leu Gly Pro Leu Ser Pro Ser Ser Phe Asn
    50                  55                  60
Pro Ile Ile Ser Ser Gln Thr Ser Asp Ser Glu His Ser Ser Ser
65                  70                  75                  80
Glu Asn Ile Pro Ala Gly Tyr Glu Val Val Ser Leu Leu Glu Ala Leu
                85                  90                  95
Asn Gly Pro Leu Thr Ser Ser Pro Ala Val Pro Pro Leu His Val Leu
                100                 105                 110
Gly Asp Gly His Leu Ser Gly Met Leu Pro Ser Tyr Gly Ser Asp Gly
            115                 120                 125
His Leu Pro Pro Val Arg Thr Leu Ser Pro Leu Asp His Leu Ser Asp
        130                 135                 140
Cys Asn Ser Gln Gly Leu Lys Leu Asn Lys Ser Leu Ser Lys Ser Ile
145                 150                 155                 160
Ser Gln Asn Ser Ser Val Leu His Glu Glu Glu Asp Glu Arg Ser Cys
                165                 170                 175
Ser Glu Ser Asp Thr Gln Leu Ser Gln Arg Leu Ser Ala Gln His Pro
            180                 185                 190
Glu Glu Gly Pro Asp Val Thr Pro Glu Ser Glu Asn Leu Thr Leu Ser
            195                 200                 205
Ser Ser Gly Ala Val Asp Gln Ser Xaa Cys Thr Gly Thr Pro Leu Ser
    210                 215                 220
Ser Thr Ile Ser Ser Pro Glu Asp Pro Ala Ser Ser Ser Leu Ala Gln
```

```
225                 230                 235                 240
Ser Val Met Ser Met Ala Ser Ser Gln Ile Ser Thr Asp Thr Val Ser
                245                 250                 255
Ser Met Ser Gly Ser Tyr Ile Ala Pro Gly Thr Glu Glu Glu Gly Glu
            260                 265                 270
Ala Pro Pro Ser Pro Arg Ala Ala Ser Arg Ala Pro Ser Glu Glu Glu
            275                 280                 285
Glu Thr Pro Ala Glu Ser Pro Asp Ser Asn Phe Ala Gly Leu Pro Ala
        290                 295                 300
Gly Glu Gln Asp Ala Glu Gly Asn Asp Ile Met Glu Glu Glu Asp Arg
305                 310                 315                 320
Ser Pro Val Gln Glu Asp Gly Gln Arg Thr Cys Ala Phe Leu Gly Met
                325                 330                 335
Glu Cys Asp Asn Asn Asn Asp Phe Asp Val Ala Ser Val Lys Ala Leu
            340                 345                 350
Asp Asn Lys Leu Cys Ser Glu Val Cys Leu Pro Gly Thr Trp Gln His
            355                 360                 365
Asp Ala Ala Ile Ile Asn Arg His Asn Thr Gln Arg Arg Arg Leu Ser
        370                 375                 380
Pro Ser Ser Leu Glu Asp Pro Glu Glu Asp Arg Pro Cys Val Trp Asp
385                 390                 395                 400
Pro Leu Ala Val
```

```
<210> 30
<211> 922
<212> DNA
<213> rattus norvegicus

<400> 30
ggcacgaggc gccgccttcc tgctcgcgcc ctatcgccgc cttcctgctc gcgccctatc 60
gccgcctccg agtcttcctg cgccccgggc ttccgccgct tcattgattt ccgtttctcg 120
ccgctgcagc ctcctgacac ggtgatccgg gcgggccccg caggaatttt atcccctcac 180
cggcctcaca ctagtgtcgc atgtccacta tccagaacct ccaatctttc gacccctttg 240
ctgatgcaac taagggcgac gacttactcc cggcagggac tgaggactac attcatataa 300
gaatccagca gcggaacggc aggaagacgc tgaccactgt gcagggcatt gcggacgatt 360
atgacaaaaa gaaacttgtg aaagctttca aaaagaaatt cgcctgtaat gggactgtga 420
ttgaacaccc tgagtacgga gaggtcattc agcttcaagg cgaccaaagg aagaacattt 480
gccagtttct tttggaggtt ggcatcgtca aggaggagca gctgaaggtt cacggattct 540
aagatgaacc cgaacatgtg gcgagtttct taaatggttt tgttgtctaa ctcagtttgg 600
ctgcctcggg agatgattct ttacagtaaa cgacagactt tgcgtttatt aaatcattca 660
gacttccact cacgcctgca tggctacaga aaacatgggg tatgtaggct cctaagtcac 720
aaggaaatcg ccgtgaggtg gggacgaagc ccgagtccgt cctgacatgt ttccagtgga 780
aaagattttg ttctgagcgt tcatttctag tttattttca cttgattgtt aaatgttttt 840
gttgttgttt tattaaacca tgtatgttgc agcttaacaa taaaggagga aagtctgtgc 900
gtcaaaaaaa aaaaaaaaaa aa                                         922
```

```
<210> 31
<211> 113
<212> PRT
<213> rattus norvegicus

<400> 31
Met Ser Thr Ile Gln Asn Leu Gln Ser Phe Asp Pro Phe Ala Asp Ala
 1               5                  10                  15
Thr Lys Gly Asp Asp Leu Leu Pro Ala Gly Thr Glu Asp Tyr Ile His
            20                  25                  30
Ile Arg Ile Gln Gln Arg Asn Gly Arg Lys Thr Leu Thr Thr Val Gln
        35                  40                  45
Gly Ile Ala Asp Asp Tyr Asp Lys Lys Lys Leu Val Lys Ala Phe Lys
    50                  55                  60
Lys Lys Phe Ala Cys Asn Gly Thr Val Ile Glu His Pro Glu Tyr Gly
65                  70                  75                  80
Glu Val Ile Gln Leu Gln Gly Asp Gln Arg Lys Asn Ile Cys Gln Phe
```

```
                       85                  90                    95
Leu Leu Glu Val Gly Ile Val Lys Glu Glu Gln Leu Lys Val His Gly
                  100                 105                   110
Phe


<210> 32
<211> 1856
<212> DNA
<213> rattus norvegicus

<400> 32
ggcgttgcga cgtggacatg tcggcgtcgt tggtccgcgc caccgtgcgg gccgtgagca 60
agagaaaact gcaacccacg cgggcggcgc tcacgctgac cccctctgct gtgaacaaga 120
taaaacaact tcttaaagac aagcctgagc atgtgggtct gaaagtgggt gtgcggacca 180
ggggctgtaa cggcctctct tacagcctgg agtatacaaa gacaaaagga gatgctgatg 240
aagaagttat tcaagacgga gtccgagtgt tcatcgagaa gaaagcccag ctaaccctgt 300
taggcacaga gatggactat gtggaagaca aactgtccag tgagtttgtg tcaacaaccc 360
caacatcaag ggaacctgtg gctgcggtga aagctttaac gtctgaaagc tgaggactgc 420
aaactccagg agagctgggt ctgccttgga gcacaccgaa gaaatcatgt gatgtcccgt 480
gtcggaagtt agtgtgtggc tgcctcgtgg ttgagaataa agtgaagcat tgaaaatcaa 540
gccagcgtgt tagagttcca aaaacatggt gtctgttctc tgtaagacac aaatggagag 600
aacatggtgt ctgttctctg gaggacacaa actgagaaac tgttgagtcc tctgtcctgt 660
acagaaaact cctaccctgc ccttacgctg tagcctgctc tgtgctagaa ccagcttcgt 720
gaccattgct ttgctgggaa ttgaggaatg ggataacggg tgtgcacctg ggtcacagaa 780
tggcttgaga ctgtctccgtg gccctgtctc acctcaggca gggcagctgt gggagcagca 840
gctgtgggag cggtgagggg acctggtttc cctcacctgt ggcgtggccc gttgcatctt 900
taccacgtgc ctgttgtcag atacctcatt tgccagcctc cagcaagctc agctatgagt 960
gccagtctca ggaggtaggg atcacgggcc tggtgtcagt ctgtcctctg gggcgtgctt 1020
catgcggttt gcttagacct ttcagttaga agcgcttgtg atgagcagcc aggtagacct 1080
gctgagagcg tggttctcag agcttctgcc cagccctcct cacaggtcac agcagacagt 1140
gctgtctgag acactcggtg aggagacatc ctgcctggcc agtgctccta ccagtttaga 1200
gactgcatta gtttctcttt gaatggaagc cttgtgtaaa cccttttgtc tgaatggcca 1260
tcctgtttag agctttgaac cagtagtgtc ttccttcaga agatctgcag cagaggggtc 1320
cctctcagca cggcacctgg ggggcagaac atgcacacac ttacagttgc cagggtgcag 1380
atgctccctg cttcccagag gaagcttcta gtttcttta atgtggtcat caccagtttt 1440
ttgagccatg gtttttgctgt atactacagg ccagccttga acccacaaca atcctcctgc 1500
ttccacgttc agaggcatgt gctaccacac ctgacctgga tcccaagttt ctctttaagt 1560
ggtcttgatg gacttgggtc ggacatctta gtgacctgtg aattcttctg tggaggctga 1620
gtctcacgta gccgagttta atatctgtgc tatttactaa agtatctgcc accaaattgt 1680
accaactcat agttttatat gaatgttgat gagtctgtat cataaataga attgttgata 1740
catccttaat ttgtgcaata ttgtatgaag aagattgtta tcaattaaaa ccacgcctct 1800
ttatgatcct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa       1856

<210> 33
<211> 134
<212> PRT
<213> rattus norvegicus

<400> 33
Arg Cys Asp Val Asp Met Ser Ala Ser Leu Val Arg Ala Thr Val Arg
 1               5                  10                  15
Ala Val Ser Lys Arg Lys Leu Gln Pro Thr Arg Ala Ala Leu Thr Leu
            20                  25                  30
Thr Pro Ser Ala Val Asn Lys Ile Lys Gln Leu Leu Lys Asp Lys Pro
            35                  40                  45
Glu His Val Gly Leu Lys Val Gly Val Arg Thr Arg Gly Cys Asn Gly
    50                  55                  60
Leu Ser Tyr Ser Leu Glu Tyr Thr Lys Thr Lys Gly Asp Ala Asp Glu
65                  70                  75                  80
Glu Val Ile Gln Asp Gly Val Arg Val Phe Ile Glu Lys Lys Ala Gln
                85                  90                  95
Leu Thr Leu Leu Gly Thr Glu Met Asp Tyr Val Glu Asp Lys Leu Ser
              100                 105                   110
```

Ser Glu Phe Val Phe Asn Asn Pro Asn Ile Lys Gly Thr Cys Gly Cys
        115                 120                 125
Gly Glu Ser Phe Asn Val
        130


<210> 34
<211> 1925
<212> DNA
<213> rattus norvegicus

<400> 34
acgagctgaa ggtcacttcg cgcacgggtt ggacctgggg caggttggag gagtaggagt 60
atgtcattgg gcgcgaagac ggggtctggg gcaaaaaaga agggaggctg gagaaatctg 120
gacccgagac gtagtaagta caacttggca aatacatgtt agaggagcag ggaccacgct 180
catcaaaatc catcattggg ctaccttggg ctctccgcag tagccgagct taacatgatt 240
ctccactgca gctgcctctt tgaagcggat ccgtgaagta gaaatttgga gacgtaagct 300
gacgtggaaa tctatcccca tccttagcag ggaggtgctg gtcatgtgac ccgatgttga 360
aattgacaag ccgcgagcta gtcccggctt tttttttta acccccctcc ctttcctttt 420
ttccccctcc cctccctcct cggcttcctt tctttgtagc cacctcaggg gaagcaacag 480
atcgtcactc ggtgttctca ccgaaagcac gtaatcgccg gtgtaactca tgttggctgg 540
ggggcctccc cgctcgcaga aaggctgggg tgcgcccca agcagctttc ctttgctcag 600
ctgcatggtc ctggtccacg agcgctctga gggcggcaag agagcgcaac tcctgacgcc 660
tcccccact ccccggtggg tgagggatgc tctgggatgg gggtggccag gtgaacgccc 720
ggaattgtgt agcttcaggt tccggagtct gttgtccgaa ggcttacgtt cagcaccttc 780
ttcgcagtcc ccctcccaca gacttgctct ggaaagcacc tcagtctcag aatctggctg 840
gaccccattt ggggccaggc ttcgcagcca cgatgtgccg ggcttcgtgg cttgtccgat 900
ttgcacggtg acttgattac acgctctcat tcatggtcac ttccgaagcg ctttagtgcc 960
ttccgtcccc aaaccgccaa caggcaaagc ggctttcctc cgcggtttgt caataatccg 1020
cgctgtccgg aagggcttcg ccttacccgg gttccacctt ccctgtatct ttctgcttac 1080
ttcctcatcc cacactctgt ccttggagga acccctctc ctcgctgcct gtaggggttc 1140
ggagtgactc cacagagcca gaggcgcttc tgctcaccgg tccgcaagct gcctggtctg 1200
ctgaagctga cgaatcggga aaccatgcaa ttgaggcgaa ccttgggctg ctttagaggc 1260
gctgaggagc cttctcctgg gaggcccaag gtcgatttca gcccaccagg atctgggggaa 1320
gacccaacta ggggtaagag cacaccggaa ggccaagtcc gagttccagt cctagaagag 1380
gcggctgcgg gcaaggttat gacattggcc ctggacactg gtttcccagg agctattctt 1440
tctcaagaac tccacagcac ggggctgtct ccagaaaata ctcttcaacg tttatttcct 1500
ttaatcgtca acccgcagcc ctacggcggt taatgcgaga ggccaaaaat gtttggagga 1560
agaaaaacaa aggcaggaag tggccgcggc ctgacggtgc gtgtgtgtct gtaaagaagg 1620
gagggagccg gttcaatctc ttctttttt ccccgaattt caaggtttag gcagaccccc 1680
gtagggcctg gccgaggctc acccggcgga gcatttggag gtggccaatg agtaaggctc 1740
gtcgggctga gtttcttctg atttggtcct aaagggtata tgctagtgtc cacagcggct 1800
cctgtggctg ctgtttcct cctgtcggac taaatgtacc aagaagggag agagattgag 1860
gcaccttgcg cgctcctctc tccttccgag gtagaatatc agaataaagt gtattcaggt 1920
gccaa                                                           1925

<210> 35
<211> 1195
<212> DNA
<213> rattus norvegicus

<400> 35
atcgggctgt actaacagat tgtttgtaaa cagtgacaca gtgataactt ccgtgttact 60
tcttaacttt atgtttctgc tttcagatct ccctcccctt ccagaggaag ttagcgatgc 120
catagcttta atgtctgttt tagctgcaaa actcattgtt cactttctgt tagaaaatct 180
aaagcaggtg gtatgcaatt tctcttgatt tggaattctt taaaggcaag taaatttgga 240
actcctgtgt tggggggtta acggaggtag gaacccaatg gtgtgtccct aggtcgtccc 300
cgttctcgga tagcacagtc tgcatagcca tagctctcaa ttatgtcact accctaatca 360
tcgcagcccg gttctcacgg actctttgaa gtcccaaaat gacttttgtt tgatcctgat 420
ttggattttc aatggaaagt aaaagcttgg ggtgaggaag cagcagctaa agcagggagt 480
tgagccagtg aattgctgac ggaaaggatt ctggtcttgg aggaggggga cctgaagcag 540
aaggaaaagg gatccttcgc ttaagttctt aggaaaaatc ttgactcaga atcccaagat 600
ttttcccttc atcccagccg ggtaaatatt tggttttgtc ttttaagtat agcatgaagc 660
ccgtggatga gagccatgtg ttgtaggatt ctcttcccta ttggctctga gcttgtgtca 720
ccgttcagtt tgctccctac aaagggacct agtttggaaa ggattggaag ggcaactgtt 780

```
cagcggcaat ggaacaccca aacgtggact gggacaacgg gattctgata aagggaaatt 840
tctggtctgg tcctggctgt gtcatagctc tttatgtgtg catggagagc tcttgatcca 900
agtagaatat gtaacaatac agaccaggat cttccagtca gtactgctgg gtggaagtgg 960
gcgggtgatg gtagttgcta gaagaatcat taagacagca tctgcggtga atgcgtccca 1020
aagcctcgcg gcatcagttt catctctaaa ccattagctt acagttgatt ccgtttcctg 1080
ggacagagaa acatccccac gcgaagtgac tgtgttgtgt attcatagca ctgcaaataa 1140
attcacgcgc catgatgaaa ccttgcaaat acgctttgac caaaaaaaaa aaaaa       1195
```

<210> 36
<211> 1149
<212> DNA
<213> rattus norvegicus

<400> 36
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gggtgtgggg cagctgggtg ggagcagcgt gcaggctacc agcaccaagt ggtgtgcctc 60
tccgggggtg tgtgcagaag gctcctgggg aaaactgcac aggtaccacc cctagacaga 120
aatcgaaaac ccacttctct cggtgcccca agcaatacaa gcattactgc atccatggga 180
gatgccgctt cgtgatggac gaacaaactc cctcctgcat ctgtgagata ggctactttg 240
gggcccggtg tgagcaggtg gacctgtttt atctccagca ggacaggggg cagatcctgg 300
tggtctgctt gataggcgtc atggtgctgt tcatcatttt agtcattggc gtcttgcacc 360
tgctgtcatc ctcttcggaa acatcgcaaa aagaagaagg aagagaaaat ggaaactttg 420
agtaaagata aaactcccat aagtgaagat attcaagaga ccaatattgc ttaacttaat 480
gattataaag ttaccacaag ctgatggcga gctccaaaag acctgactca tttgcagatg 540
gacaggacat gtctcaggaa aacagcttgc agaaatgaat gtttaaatat tgtatttgct 600
ttttcatttt atttgtaact gtgtgttgtt attgtttta ataatgatat ttttgttaca 660
gtctgatagc tgagaaaaaa atgacctggt taggtgacga caataaggga cattgaatat 720
aaactttgtt gctaggatta ttaaacaaac aaaatttgga aagaagttag attttaagaa 780
ctgagtcatg gtcaggcagc gatggcacac atctttaatc ccagcacttg ggagcagagg 840
caggtagatc tctgggagtt tgaggtcagc ctggtctaca aagcaagatc cagggtagcc 900
aaggttatat agagaaaccc tgtctcacaa aaccaaacca accaatcaac caaacagcaa 960
aacacctgag tcgataaaag ggctccccag gtttatacac ttaccgtatg ctaagagctt 1020
gaaatatatt gtttcgtttt atcgttcagt agtctgtgag attgcatttt ttctcattcc 1080
tatatataaa aaagttaaat gatttccctt agatgtagag atagaggaag ttagcgatgc 1140
catagcttt                                                         1149
```

<210> 37
<211> 717
<212> PRT
<213> rattus norvegicus

<400> 37
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Asn Thr Cys Asn Asn Cys Thr Thr Asn Asn Cys Asn Asn Asn Gly Gly
 1               5                  10                  15
Cys Thr Gly Ala Thr Ala Thr Cys Asn Gly Gly Cys Asn Cys Thr Thr
            20                  25                  30
Cys Asn Thr Cys Cys Asn Cys Gly Ala Thr Cys Asn Cys Ala Gly Ala
        35                  40                  45
Thr Ala Cys Asn Asn Gly Cys Asn Cys Ala Cys Cys Gly Gly Asn Asn
    50                  55                  60
Asn Thr Asn Thr Cys Asn Gly Asn Gly Gly Thr Asn Ala Thr Cys Asn
65                  70                  75                  80
Thr Cys Cys Asn Cys Cys Ala Thr Cys Thr Cys Thr Cys Asn Thr Cys
                85                  90                  95
Cys Cys Cys Gly Ala Cys Asn Thr Gly Cys Ala Cys Thr Cys Cys Gly
            100                 105                 110
Gly Gly Thr Asn Thr Asn Asn Thr Ala Cys Ala Cys Asn Gly Gly Ala
        115                 120                 125
Cys Ala Cys Thr Gly Thr Ala Thr Cys Asn Asn Ala Cys Ala Gly Asn
    130                 135                 140
Ala Ala Ala Cys Cys Thr Asn Cys Cys Cys Asn Gly Gly Cys Cys Cys
145                 150                 155                 160
Cys Ala Gly Gly Gly Ala Thr Cys Ala Cys Ala Thr Asn Cys Cys
            165                 170                 175
Thr Cys Gly Asn Cys Cys Cys Asn Gly Cys Asn Thr Gly Thr Asn Thr
            180                 185                 190
```

Ala Thr Ala Ala Asn Ala Thr Cys Ala Gly Gly Asn Asn Asn Thr Ala
        195                 200                 205
Cys Ala Thr Cys Asn Ala Asn Gly Ala Ala Cys Asn Asn Ala Cys Thr
    210                 215                 220
Ala Thr Cys Ala Cys Asn Gly Asn Thr Cys Thr Cys Thr Asn Thr Thr
225             230                 235                 240
Asn Asn Cys Thr Cys Ala Gly Thr Gly Thr Asn Cys Ala Cys Cys Thr
            245                 250                 255
Thr Cys Cys Ala Cys Thr Asn Cys Asn Gly Ala Ala Asn Cys Thr Asn
            260                 265                 270
Asn Thr Cys Gly Cys Thr Asn Cys Asn Cys Cys Asn Cys Asn Gly Thr
    275                 280                 285
Thr Gly Gly Gly Ala Ala Ala Gly Gly Cys Gly Ala Asn Cys Asn Gly
    290                 295                 300
Thr Asn Cys Cys Gly Gly Cys Asn Ala Cys Ala Thr Gly Cys Cys Gly
305             310                 315                 320
Thr Thr Thr Asn Cys Gly Asn Cys Asn Thr Cys Thr Gly Asn Asn Cys
            325                 330                 335
Ala Cys Asn Thr Gly Gly Gly Gly Ala Thr Cys Thr Asn Cys Thr Asn
            340                 345                 350
Cys Ala Ala Asn Gly Asn Ala Ala Thr Cys Ala Ala Thr Thr Asn Gly
    355                 360                 365
Asn Gly Thr Ala Ala Cys Cys Cys Ala Cys Gly Gly Thr Thr Thr Asn
    370                 375                 380
Cys Asn Cys Ala Ala Thr Cys Ala Cys Thr Ala Cys Thr Thr Cys Thr
385             390                 395                 400
Cys Ala Asn Asn Cys Asn Ala Asn Gly Gly Cys Cys Asn Thr Thr Gly
            405                 410                 415
Ala Ala Asn Thr Gly Thr Thr Ala Thr Cys Cys Cys Ala Cys Cys Ala
            420                 425                 430
Cys Cys Ala Asn Gly Gly Gly Gly Cys Asn Ala Asn Thr Cys Gly Gly
    435                 440                 445
Gly Ala Cys Cys Thr Asn Ala Cys Ala Ala Thr Thr Cys Ala Thr Cys
    450                 455                 460
Cys Thr Cys Ala Gly Cys Cys Gly Gly Cys Cys Cys Cys Ala Gly Asn
465             470                 475                 480
Cys Thr Thr Ala Ala Ala Ala Ala Ala Thr Thr Cys Ala Ala Ala Gly
            485                 490                 495
Gly Asn Cys Asn Cys Thr Thr Gly Cys Cys Cys Gly Cys Asn Thr Thr
    500                 505                 510
Asn Thr Thr Asn Cys Cys Thr Thr Ala Gly Cys Cys Cys Gly Cys Cys
    515                 520                 525
Asn Cys Cys Asn Gly Ala Cys Ala Ala Cys Ala Asn Cys Cys Asn Ala
    530                 535                 540
Asn Asn Ala Ala Cys Ala Ala Cys Cys Cys Cys Asn Asn Thr Cys
545             550                 555                 560
Thr Thr Ala Asn Gly Thr Thr Gly Cys Asn Asn Ala Asn Cys Cys Cys
            565                 570                 575
Ala Cys Ala Gly Gly Ala Asn Asn Thr Gly Asn Asn Ala Thr Ala
    580                 585                 590
Cys Cys Gly Gly Gly Thr Thr Thr Cys Cys Cys Asn Gly Ala Ala
    595                 600                 605
Ala Cys Thr Asn Cys Thr Cys Ala Ala Asn Gly Cys Cys Asn Cys Cys
    610                 615                 620
Gly Thr Thr Cys Cys Ala Ala Cys Cys Cys Cys Gly Thr Thr Ala
625             630                 635                 640
Cys Gly Ala Ala Ala Cys Cys Gly Thr Asn Cys Cys Cys Asn Thr Thr
            645                 650                 655
Thr Cys Cys Thr Thr Cys Cys Gly Ala Gly Asn Thr Thr Gly Cys Cys
            660                 665                 670
Thr Ala Thr Thr Ala Ala Asn Asn Cys Cys Cys Cys Asn Ala Ala
    675                 680                 685
Gly Thr Thr Cys Thr Asn Cys Thr Thr Cys Gly Thr Thr Asn Gly Asn
    690                 695                 700
Thr Thr Cys Cys Thr Cys Cys Gly Ala Ala Ala Asn Gly

```
<210> 38
<211> 235
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 10, 11, 12, 13, 18, 20, 29, 30, 31, 39, 40, 46, 47, 49,
      58, 71, 84, 90, 103, 111, 123, 126, 139, 141, 165, 185, 192, 199
<223> n = A,T,C or G

<220>
<221> unsure
<222> 204, 211, 213, 214, 228
<223> n = A,T,C or G

<400> 38
tcactgggcn nnntggtngn cgtcatgcnn naggttccnn ccccnnang aacctccngg 60
taatctacac nggagtctta agtngacaan cccacactgc ganggtcaag nggatcacca 120
tcnccncctc ccaagcttnt ncattgatgc tctctctgtt ccgtnccctg ccgctacaca 180
tggangctct tnctccttnt ctcntcttac nanncaaaca ttgccctntc tcata 235

<210> 39
<211> 328
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 6, 11, 12, 28, 37, 40, 50, 68, 74, 86, 89, 93, 101, 107,
      117, 145, 159, 163, 164, 169, 172, 178, 179, 184, 186, 191
<223> n = A,T,C or G

<220>
<221> unsure
<222> 192, 203, 204, 205, 215, 218, 219, 228, 229, 232, 233,
      235, 237, 239, 245, 247, 248, 250, 252, 254, 266, 274, 279
<223> n = A,T,C or G

<220>
<221> unsure
<222> 284, 288, 290, 300, 304, 312, 317, 322
<223> n = A,T,C or G

<400> 39
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cggggggga aaaaaaaggg ttacnaaggg aaacctttna aannggaang gntttgcnnc 180
cctntngaaa nntttgcccc ccnnnaggaa tcccnggnna aacccaannc cnncncncng 240
ggggncnntn cnangggacc ccaacncggg cccnaactng gggnaaanan gggcaaaacn 300
ggtncccggg gnaaaanggt anccctc 328

<210> 40
<211> 196
<212> DNA
<213> rattus norvegicus

<400> 40
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aagatcccaa acccaaaagc cacattgtta attagccttt ttattgtgtt tttttttttt 120
ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt ttttttttt 180
ttttggcagc tcggca 196
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<210> 41
<211> 422
<212> DNA
<213> rattus norvegicus

<400> 41
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acacaacgaa accggccacg tgaatggcat ccggtcttat gtggacttca atgttttcaa 180
cggggacagc acagattttg ccgaactatt aatgaaataa tgcagaattt cgcttttcaa 240
ataagcccat ggatcctgac gtaaaatatt tcctgctggt gatcgtgcag tccatttcga 300
tgctcatact ttggctgatg ctcaacatga cctttgggat ctattttaat tttgctttcc 360
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ca                                                                   422

<210> 42
<211> 304
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 2, 7, 71, 80, 87, 88, 92, 97, 98, 99, 103, 109, 110, 130,
      133, 141, 147, 150, 159, 162, 165, 169, 172, 174, 179, 182
<223> n = A,T,C or G

<220>
<221> unsure
<222> 184, 190, 194, 195, 200, 202, 207, 209
<223> n = A,T,C or G

<400> 42
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tgttgtttttn ttnaaactgt ntgttgncan ttcaacatna anggnaggna antntgtgnc 180
tncnttgcan tgtnncatgn tncccananc ccaaaaaaaa aaaaaaaaaa aaaaagagta 240
caaatatcac aaaatttgac atttttgtaa taatactttg gttgttgttt ggtgacggcg 300
attg                                                                 304